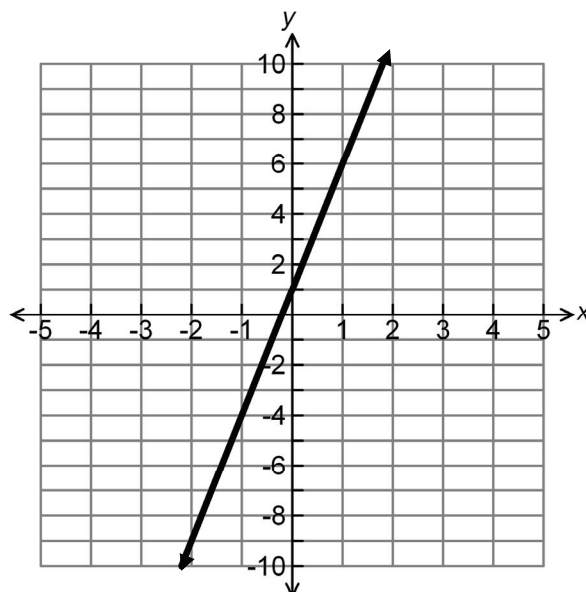




- 1 The graph of the line $y = 5x + 1$ is drawn on the coordinate grid below.



Which table of ordered pairs contains only points on the line?

A

x	y
-2	1
-1	4
0	7
1	10

C

x	y
-9	-2
-4	-1
1	0
6	1

B

x	y
-2	-9
-1	-4
0	1
1	6

D

x	y
-2	-5
-1	0
0	5
1	10



- 2 Let n represent the position of a term in the sequence below.

7, 11, 15, 19, 23, 27, ...

Which algebraic expression can be used to find the n th term of the sequence?

- A $4n + 3$
- B $3n + 4$
- C $n + 4$
- D $7n$

- 3 Julia has \$300 in her savings account. She plans to deposit \$50 each month in her account until she has \$1,000. Which equation can be used to determine m , the number of months it will take for Julia to have \$1,000 in her account?

- A $50m = 1000$
- B $300m + 50 = 1000$
- C $300m + 50m = 1000$
- D $50m + 300 = 1000$

- 4 Look at the sequence in the table below.

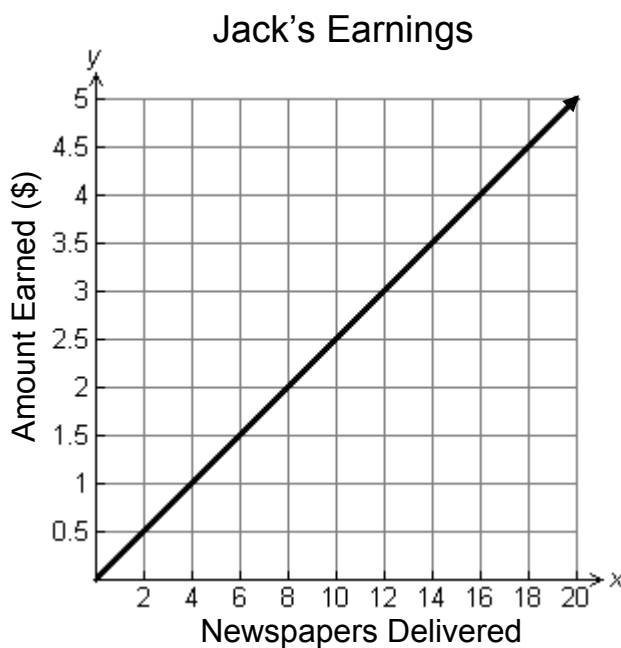
Position	Value of Term
1	1.5
2	2
3	2.5
4	3
5	3.5
n	?

Which expression can be used to find the value of the term in the n th position?

- A $\frac{1}{2}n$
- B $\frac{3}{2}n$
- C $\frac{1}{2}n + 1$
- D $\frac{3}{2}n - 1$



- 5 The graph below shows the amount of money Jack can earn by delivering newspapers.



Based on the information in the graph, which best represents the amount of money Jack can earn by delivering 100 newspapers?

- A \$5.00
- B \$10.00
- C \$20.00
- D \$25.00



- 6 Brenda needs to rent a storage unit to store some furniture. The table below shows the relationship between the number of months and the total cost to rent a storage unit.

Cost of Storage Unit

Number of months	Total Cost
1	\$55.00
2	\$90.00
4	\$160.00
6	\$230.00

Based on the pattern in the table, how much will it cost for Brenda to rent a storage unit for 1 year?

- A \$660.00
- B \$540.00
- C \$460.00
- D \$440.00

- 7 The expression shown below describes a pattern of numbers.

$$5(2 + n)$$

If n represents a number's position in the sequence, which pattern of numbers does the expression describe?

- A 5, 10, 15, 20, 25, ...
- B 15, 20, 25, 30, 35, ...
- C 2, 4, 6, 8, 10, ...
- D 15, 30, 45, 60, 75, ...

- 8 The table below shows a relationship between x and y .

x	0	1	2	3	6
y	5	9	13	17	29

Which equation represents the relationship?

- A $y = x + 5$
- B $y = 5x$
- C $y = 4x + 5$
- D $y = 4x + 1$



- 9 Marilyn and Shelley are playing a number game. When Marilyn says a number, Shelley responds with an answer. The results of the game are shown in the table below.

Game Results

Marilyn's Number	Shelley's Answer
3	5
5	7
8	10
12	14

Which procedure describes the process that Shelley is using to get the answer?

- A Multiply Marilyn's number by 2 then subtract 1.
- B Add 2 to Marilyn's number.
- C Add 7 to Marilyn's number then divide the sum by 2.
- D Multiply Marilyn's number by 3 then subtract 4.

- 10 A bus company offers bus passes for customers who ride the bus often. The company charges a processing fee plus a charge per ride. The cost, c , of a bus pass can be found using the equation $c = 2 + 2.5r$, where r represents the number of rides on the bus. What is the total charge for a person who rides the bus 20 times?

- A \$42.50
- B \$50.00
- C \$52.00
- D \$90.00

- 11 Which expression can be used to find the n th term in the following arithmetic sequence, where n represents a number's position in the sequence?

Position	1	2	3	4	n
Value of Term	7	9	11	13	

- A $2n + 5$
- B $n + 2$
- C $7n$
- D $4n + 1$